

REMARKS

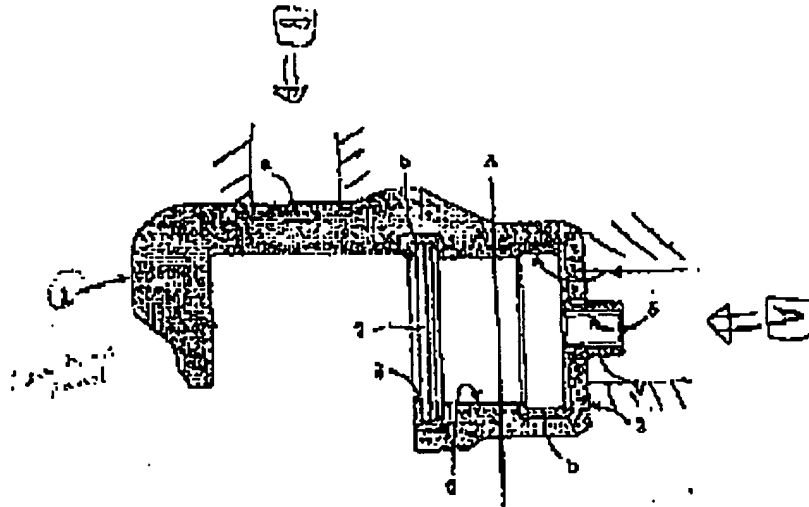
Claims 6-11, 13-16 and 18-25 are currently pending in the application. By this amendment, claims 6, 15 and 19 are amended for the Examiner's consideration. Claim 17 is canceled without prejudice of disclaimer. Support for the amended claims is provided at least in Figure 5 and page 13 of the specification. No new matter is added. Reconsideration of the rejected claims in view of the above amendments and the following remarks is respectfully requested.

Examiner Interview

Applicants appreciate the courtesies extended by Examiner Burch to Applicants' undersigned representative during a personal interview conducted on August 13, 2003. During this interview, Applicants' representative discussed the many types of casting methods, including the casting method of the presently claimed inventions. Applicants' representative also discussed the distinct advantages of the placement of the sprue in the gravity casting method of the invention. It was also pointed out that the hole of JP8-35530 is not a sprue and that the method of JP8-35530 is a press fit method using two different types of materials. Also, JP8-35530 does not show that a flange portion of the union hole is formed by processing the sprue after the casting. Applicants' representative also noted the advantages of the specific ratio volumes used by the invention; that is, the supply of the molten material from the central portion where the solidification is slow can be continued due to the step by step supply effect based on the ratio of volume. This contributes to the elimination or prevention of any sink marks produced in the reaction portion and the caliper body.

Applicants further note that it is impossible to use the inlet hole 5 of JP8-35530 as a sprue. In the case where the inlet hole 5 is utilized as a sprue and a molten metal is provided from the direction A (as shown below in the figure reproduced), the hole 5 would be closed. In order to prevent the hole 5 from being closed, for example, the molten metal must be provided from the B-direction at a place other than the hole 5. This being the case, it is impossible for the

hole to be used as a sprue.



Applicants' representative also noted that JP-H1-146718 teaches storing data on compression pressure and variations of volume due to cooling temperature on a storage medium. This references only appears to directly disclose the volume ratio of a molding opening, and not the use of different ratios as compiled and recited by the claimed invention.

Applicants lastly point out that Weiler is only used to generally support the use of a core, but does not teach the specific placement thereof and hence there is no suggestion of the features argued by the Examiner.

Conclusion

In view of the foregoing amendments and remarks, Applicants submit that all of the claims are patentably distinct from the prior art of record and are in condition for allowance. The Examiner is respectfully requested to pass the above application to issue. The Examiner is invited to contact the undersigned at the telephone number listed below, if needed. Applicants

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hereby make a written conditional petition for extension of time, if required. Please charge any deficiencies and credit any overpayment of fees to Attorney's Deposit Account No. 23-1951.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Andrew M. Calderon", with a long horizontal flourish extending to the right.

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